

Wang-Meng Zuo

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

163 papers	12,472 citations	48 h-index	111 g-index
196 ext. papers	17,706 ext. citations	5.9 avg, IF	7.36 L-index

#	Paper	IF	Citations
163	Beyond a Gaussian Denoiser: Residual Learning of Deep CNN for Image Denoising. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 3142-3155	8.7	2526
162	Weighted Nuclear Norm Minimization with Application to Image Denoising 2014 ,		760
161	FFDNet: Toward a Fast and Flexible Solution for CNN based Image Denoising. <i>IEEE Transactions on Image Processing</i> , 2018 ,	8.7	731
160	Learning Deep CNN Denoiser Prior for Image Restoration 2017 ,		647
159	Weighted Nuclear Norm Minimization and Its Applications to Low Level Vision. <i>International Journal of Computer Vision</i> , 2017 , 121, 183-208	10.6	353
158	NTIRE 2017 Challenge on Single Image Super-Resolution: Methods and Results 2017 ,		322
157	Learning Spatial-Temporal Regularized Correlation Filters for Visual Tracking 2018 ,		316
156	Learning a Single Convolutional Super-Resolution Network for Multiple Degradations 2018 ,		311
155	Toward Convolutional Blind Denoising of Real Photographs 2019 ,		242
154	Multi-level Wavelet-CNN for Image Restoration 2018 ,		227
153	End-to-End Blind Image Quality Assessment Using Deep Neural Networks. <i>IEEE Transactions on Image Processing</i> , 2018 , 27, 1202-1213	8.7	214
152	AttGAN: Facial Attribute Editing by Only Changing What You Want. <i>IEEE Transactions on Image Processing</i> , 2019 , 28, 5464-5478	8.7	199
151	Joint Learning of Single-Image and Cross-Image Representations for Person Re-identification 2016 ,		198
150	2019 ,		194
149	Weighted Schatten $\ \cdot \ _{p,q}$ -Norm Minimization for Image Denoising and Background Subtraction. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 4842-4857	8.7	185
148	Unsupervised feature selection by regularized self-representation. <i>Pattern Recognition</i> , 2015 , 48, 438-446	7.7	182
147	Palmprint verification using binary orientation co-occurrence vector. <i>Pattern Recognition Letters</i> , 2009 , 30, 1219-1227	4.7	181

146	Mind the Class Weight Bias: Weighted Maximum Mean Discrepancy for Unsupervised Domain Adaptation 2017 ,		178
145	LSDT: Latent Sparse Domain Transfer Learning for Visual Adaptation. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 1177-91	8.7	175
144	Patch Group Based Nonlocal Self-Similarity Prior Learning for Image Denoising 2015 ,		169
143	Deep learning on image denoising: An overview. <i>Neural Networks</i> , 2020 , 131, 251-275	9.1	169
142	Attention-guided CNN for image denoising. <i>Neural Networks</i> , 2020 , 124, 117-129	9.1	158
141	Convolutional Sparse Coding for Image Super-Resolution 2015 ,		154
140	Image denoising using deep CNN with batch renormalization. <i>Neural Networks</i> , 2020 , 121, 461-473	9.1	151
139	A Probabilistic Collaborative Representation Based Approach for Pattern Classification 2016 ,		133
138	Blind Super-Resolution With Iterative Kernel Correction 2019 ,		126
137	Learning Convolutional Networks for Content-Weighted Image Compression 2018 ,		125
136	Deep Plug-And-Play Super-Resolution for Arbitrary Blur Kernels 2019 ,		116
135	Shift-Net: Image Inpainting via Deep Feature Rearrangement. <i>Lecture Notes in Computer Science</i> , 2018 , 3-19	0.9	109
134	Image Deblurring via Enhanced Low-Rank Prior. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 3426-3437	4.7	106
133	Deep Cocktail Network: Multi-source Unsupervised Domain Adaptation with Category Shift 2018 ,		102
132	Image Set-Based Collaborative Representation for Face Recognition. <i>IEEE Transactions on Information Forensics and Security</i> , 2014 , 9, 1120-1132	8	100
131	NTIRE 2018 Challenge on Single Image Super-Resolution: Methods and Results 2018 ,		99
130	Surface fatigue crack identification in steel box girder of bridges by a deep fusion convolutional neural network based on consumer-grade camera images. <i>Structural Health Monitoring</i> , 2019 , 18, 653-674	4.4	95
129	Robust Online Matrix Factorization for Dynamic Background Subtraction. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018 , 40, 1726-1740	13.3	89

128	Palmpoint Recognition Based on Complete Direction Representation. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 4483-4498	8.7	87
127	Joint Convolutional Analysis and Synthesis Sparse Representation for Single Image Layer Separation 2017 ,		86
126	Gradient histogram estimation and preservation for texture enhanced image denoising. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 2459-72	8.7	75
125	Bidirectional PCA with assembled matrix distance metric for image recognition. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2006 , 36, 863-72		75
124	A generalized accelerated proximal gradient approach for total-variation-based image restoration. <i>IEEE Transactions on Image Processing</i> , 2011 , 20, 2748-59	8.7	73
123	On kernel difference-weighted k-nearest neighbor classification. <i>Pattern Analysis and Applications</i> , 2008 , 11, 247-257	2.3	68
122	A Deep Structured Model with RadiusMargin Bound for 3D Human Activity Recognition. <i>International Journal of Computer Vision</i> , 2016 , 118, 256-273	10.6	64
121	Orientation selection using modified FCM for competitive code-based palmpoint recognition. <i>Pattern Recognition</i> , 2009 , 42, 2841-2849	7.7	58
120	Multi-Level Wavelet Convolutional Neural Networks. <i>IEEE Access</i> , 2019 , 7, 74973-74985	3.5	57
119	Image Restoration: From Sparse and Low-Rank Priors to Deep Priors [Lecture Notes]. <i>IEEE Signal Processing Magazine</i> , 2017 , 34, 172-179	9.4	57
118	. <i>IEEE Transactions on Multimedia</i> , 2021 , 23, 1489-1502	6.6	55
117	Manifold Criterion Guided Transfer Learning via Intermediate Domain Generation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 ,	10.3	54
116	Learning Iteration-wise Generalized Shrinkage-Thresholding Operators for Blind Deconvolution. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 1751-64	8.7	52
115	Lightweight image super-resolution with enhanced CNN. <i>Knowledge-Based Systems</i> , 2020 , 205, 106235	7.3	45
114	Image to Video Person Re-Identification by Learning Heterogeneous Dictionary Pair With Feature Projection Matrix. <i>IEEE Transactions on Information Forensics and Security</i> , 2018 , 13, 717-732	8	44
113	Learning Support Correlation Filters for Visual Tracking. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2019 , 41, 1158-1172	13.3	44
112	F-SVM: Combination of Feature Transformation and SVM Learning via Convex Relaxation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 5185-5199	10.3	41
111	Class-specific Reconstruction Transfer Learning for Visual Recognition Across Domains. <i>IEEE Transactions on Image Processing</i> , 2019 ,	8.7	41

110	Multi-Views Fusion CNN for Left Ventricular Volumes Estimation on Cardiac MR Images. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 1924-1934	5	40
109	Learning Dynamic Guidance for Depth Image Enhancement 2017 ,		39
108	Neural Blind Deconvolution Using Deep Priors 2020 ,		39
107	An Approach to Streaming Video Segmentation With Sub-Optimal Low-Rank Decomposition. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 1947-60	8.7	38
106	Multi-scale Location-Aware Kernel Representation for Object Detection 2018 ,		38
105	A Compound Pressure Signal Acquisition System for Multichannel Wrist Pulse Signal Analysis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014 , 63, 1556-1565	5.2	37
104	Learning Warped Guidance for Blind Face Restoration. <i>Lecture Notes in Computer Science</i> , 2018 , 278-296	0.9	34
103	LATE: A Level-Set Method Based on Local Approximation of Taylor Expansion for Segmenting Intensity Inhomogeneous Images. <i>IEEE Transactions on Image Processing</i> , 2018 , 27, 5016-5031	8.7	33
102	Simultaneous Fidelity and Regularization Learning for Image Restoration. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , 43, 284-299	13.3	32
101	Joint Learning of Multiple Regressors for Single Image Super-Resolution. <i>IEEE Signal Processing Letters</i> , 2016 , 23, 102-106	3.2	30
100	Visual Tracking via Dynamic Graph Learning. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2019 , 41, 2770-2782	13.3	30
99	Single Image Deraining Using Bilateral Recurrent Network. <i>IEEE Transactions on Image Processing</i> , 2020 , 29, 6852-6863	8.7	29
98	Non-convex regularized self-representation for unsupervised feature selection. <i>Image and Vision Computing</i> , 2017 , 60, 22-29	3.7	27
97	Time Series Classification Using Support Vector Machine with Gaussian Elastic Metric Kernel 2010 ,		26
96	Weighted Graph Embedding-Based Metric Learning for Kinship Verification. <i>IEEE Transactions on Image Processing</i> , 2019 , 28, 1149-1162	8.7	26
95	Multiscale competitive code for efficient palmprint recognition 2008 ,		25
94	2015 ,		24
93	Dictionary Pair Classifier Driven Convolutional Neural Networks for Object Detection 2016 ,		24

92	Towards effective codebookless model for image classification. <i>Pattern Recognition</i> , 2016 , 59, 63-71	7.7	23
91	Learning pairwise SVM on hierarchical deep features for ear recognition. <i>IET Biometrics</i> , 2018 , 7, 557-566.	6.9	22
90	. <i>IEEE Transactions on Multimedia</i> , 2020 , 22, 3180-3195	6.6	21
89	Deep CNNs Meet Global Covariance Pooling: Better Representation and Generalization. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , 43, 2582-2597	13.3	21
88	Convolutional Neural Networks Based Intra Prediction for HEVC 2017 ,		20
87	Accurate Transmission Estimation for Removing Haze and Noise from a Single Image. <i>IEEE Transactions on Image Processing</i> , 2019 ,	8.7	20
86	Dark and Bright Channel Prior Embedded Network for Dynamic Scene Deblurring. <i>IEEE Transactions on Image Processing</i> , 2020 , 29, 6885-6897	8.7	20
85	Uncertainty-optimized deep learning model for small-scale person re-identification. <i>Science China Information Sciences</i> , 2019 , 62, 1	3.4	20
84	A snake-based approach to automated segmentation of tongue image using polar edge detector. <i>International Journal of Imaging Systems and Technology</i> , 2006 , 16, 103-112	2.5	19
83	NTIRE 2020 Challenge on Real Image Denoising: Dataset, Methods and Results 2020 ,		18
82	Face Frontalization Using an Appearance-Flow-Based Convolutional Neural Network. <i>IEEE Transactions on Image Processing</i> , 2019 , 28, 2187-2199	8.7	18
81	Iterative quality enhancement via residual-artifact learning networks for low-dose CT. <i>Physics in Medicine and Biology</i> , 2018 , 63, 215004	3.8	18
80	Partial Deconvolution With Inaccurate Blur Kernel. <i>IEEE Transactions on Image Processing</i> , 2018 , 27, 511-524	5.7	17
79	Deep Structured Scene Parsing by Learning with Image Descriptions 2016 ,		17
78	Efficient and Effective Context-Based Convolutional Entropy Modeling for Image Compression. <i>IEEE Transactions on Image Processing</i> , 2020 ,	8.7	16
77	Distance Metric Learning via Iterated Support Vector Machines. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 4937-4950	8.7	16
76	Joint Representation and Truncated Inference Learning for Correlation Filter Based Tracking. <i>Lecture Notes in Computer Science</i> , 2018 , 560-575	0.9	16
75	Designing and training of a dual CNN for image denoising. <i>Knowledge-Based Systems</i> , 2021 , 226, 106949	7.3	16

74	Blind Face Restoration via Deep Multi-scale Component Dictionaries. <i>Lecture Notes in Computer Science</i> , 2020 , 399-415	0.9	15
73	Deep Reconstruction of Least Significant Bits for Bit-Depth Expansion. <i>IEEE Transactions on Image Processing</i> , 2019 ,	8.7	15
72	. <i>IEEE Transactions on Multimedia</i> , 2020 , 22, 2420-2433	6.6	14
71	From Face Recognition to Kinship Verification: An Adaptation Approach 2017 ,		14
70	Asymmetric CNN for Image Superresolution. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-13	7.3	13
69	A performance evaluation of filter design and coding schemes for palmprint recognition 2008 ,		12
68	Scaled Simplex Representation for Subspace Clustering. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 1493-1505	10.2	10
67	Confidence-Based Large-Scale Dense Multi-View Stereo. <i>IEEE Transactions on Image Processing</i> , 2020 , 29, 7176-7191	8.7	9
66	Learning Content-Weighted Deep Image Compression. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , 43, 3446-3461	13.3	9
65	Image restoration using spatially variant hyper-Laplacian prior. <i>Signal, Image and Video Processing</i> , 2019 , 13, 155-162	1.6	9
64	Video-based multiscale identification approach for tower vibration of a cable-stayed bridge model under earthquake ground motions. <i>Structural Control and Health Monitoring</i> , 2019 , 26, e2314	4.5	9
63	Learned Dynamic Guidance for Depth Image Reconstruction. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2019 ,	13.3	8
62	Design and implementation of a multi-channel pulse signal acquisition system 2012 ,		8
61	Learning Symmetry Consistent Deep CNNs for Face Completion. <i>IEEE Transactions on Image Processing</i> , 2020 , 29, 7641-7655	8.7	8
60	Multi-scale generative adversarial inpainting network based on cross-layer attention transfer mechanism. <i>Knowledge-Based Systems</i> , 2020 , 196, 105778	7.3	8
59	. <i>IEEE Transactions on Multimedia</i> , 2021 , 1-1	6.6	7
58	Discriminative Local Feature Fusion for Ear Recognition Problem 2018 ,		6
57	Class-Specific Reconstruction Transfer Learning via Sparse Low-Rank Constraint 2017 ,		6

56	ICP registration using principal line and orientation features for palmprint alignment 2010 ,		6
55	Learning Flow-Based Feature Warping for Face Frontalization with Illumination Inconsistent Supervision. <i>Lecture Notes in Computer Science</i> , 2020 , 558-574	0.9	6
54	Hierarchical Scene Parsing by Weakly Supervised Learning with Image Descriptions. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2019 , 41, 596-610	13.3	6
53	Blind Quality Assessment for Cartoon Images. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020 , 30, 3282-3288	6.4	6
52	Learning to Acquire the Quality of Human Pose Estimation. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 31, 1555-1568	6.4	6
51	Multi-scale structural kernel representation for object detection. <i>Pattern Recognition</i> , 2021 , 110, 107593	7.7	6
50	Metric Learning with Dynamically Generated Pairwise Constraints for Ear Recognition. <i>Information (Switzerland)</i> , 2018 , 9, 215	2.6	6
49	Convolutional Neural Networks for Image Denoising and Restoration. <i>Advances in Computer Vision and Pattern Recognition</i> , 2018 , 93-123	1.1	6
48	Multi-boundary cardiac data visualization based on multidimensional transfer function with ray distance. <i>Bio-Medical Materials and Engineering</i> , 2014 , 24, 3025-32	1	5
47	Gaussian ERP Kernel Classifier for Pulse Waveforms Classification 2010 ,		5
46	Face attribute editing based on generative adversarial networks. <i>Signal, Image and Video Processing</i> , 2020 , 14, 1217-1225	1.6	4
45	An additive convolution model for fast restoration of nonuniform blurred images. <i>International Journal of Computer Mathematics</i> , 2014 , 91, 2446-2466	1.2	4
44	An augmented Lagrangian method for fast gradient vector flow computation 2011 ,		4
43	Constrained Online Cut-Paste for Object Detection. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 31, 4071-4083	6.4	4
42	Learning Semantic Person Image Generation by Region-Adaptive Normalization 2021 ,		4
41	Towards Learning Multi-domain Crowd Counting. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 1-1	6.4	4
40	Learning cascaded convolutional networks for blind single image super-resolution. <i>Neurocomputing</i> , 2020 , 417, 371-383	5.4	4
39	. <i>IEEE Transactions on Image Processing</i> , 2020 , 29, 7045-7060	8.7	4

38	Learning LogDet Divergence for Ear Recognition 2018 ,		4
37	CSHE: network pruning by using cluster similarity and matrix eigenvalues. <i>International Journal of Machine Learning and Cybernetics</i> ,1	3.8	4
36	Multiview stereo and silhouette fusion via minimizing generalized reprojection error. <i>Image and Vision Computing</i> , 2015 , 33, 1-14	3.7	3
35	A Coordinate Descent Method for Total Variation Minimization. <i>Mathematical Problems in Engineering</i> , 2017 , 2017, 1-13	1.1	3
34	A Novel 3D CAD Model Retrieval Method Based on Vertices Classification and Weights Combination Optimization. <i>Mathematical Problems in Engineering</i> , 2017 , 2017, 1-12	1.1	3
33	Weighted Nuclear Norm Minimization Based Tongue Specular Reflection Removal. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-15	1.1	3
32	Unsupervised image-to-image translation using intra-domain reconstruction loss. <i>International Journal of Machine Learning and Cybernetics</i> , 2020 , 11, 2077-2088	3.8	2
31	A composite visualization method for electrophysiology-morphous merging of human heart. <i>BioMedical Engineering OnLine</i> , 2017 , 16, 70	4.1	2
30	A fast and efficient nearest neighbor method for protein secondary structure prediction 2011 ,		2
29	Effective transfer function for interactive visualization and multivariate volume data 2011 ,		2
28	Real-time interactive heart illustration platform via hardware accelerated rendering 2011 ,		2
27	Biomedical Image Processing: A Cross-Discipline Course for Undergraduate Computer Science and Technology Major 2008 ,		2
26	Theoretical Investigation on Post-Processed LDA for Face and Palmprint Recognition 2007 ,		2
25	Combination of polar edge detection and active contour model for automated tongue segmentation		2
24	Non-convex Regularized Self-representation for Unsupervised Feature Selection. <i>Lecture Notes in Computer Science</i> , 2015 , 55-65	0.9	2
23	An Effective Approach of Teeth Segmentation within the 3D Cone Beam Computed Tomography Image Based on Deformable Surface Model. <i>Mathematical Problems in Engineering</i> , 2016 , 2016, 1-10	1.1	2
22	Depth Attenuation Degree Based Visualization for Cardiac Ischemic Electrophysiological Feature Exploration. <i>BioMed Research International</i> , 2016 , 2016, 2979081	3	2
21	Robust Deep Softmax Regression Against Label Noise for Unsupervised Domain Adaptation. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2019 , 33, 1940002	1.1	2

20	Uncertainty Guided Multi-Scale Attention Network for Raindrop Removal From a Single Image. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 4828-4839	8.7	2
19	Network pruning via probing the importance of filters. <i>International Journal of Machine Learning and Cybernetics</i> ,1	3.8	2
18	Deepfake Forensics via an Adversarial Game.. <i>IEEE Transactions on Image Processing</i> , 2022 , 31, 3541-3552.	8.7	2
17	SOLD: Sub-optimal low-rank decomposition for efficient video segmentation 2015 ,		1
16	Fast neighbourhood component analysis with spatially smooth regulariser for robust noisy face recognition. <i>IET Biometrics</i> , 2014 , 3, 278-290	2.9	1
15	Exploratory tongue color analysis with manifold learning 2010 ,		1
14	Learning with multiple Gaussian distance kernels for time series classification 2011 ,		1
13	Palmprint verification using consistent orientation coding 2009 ,		1
12	Bi-directional PCA with assembled matrix distance metric 2005 ,		1
11	Semi-Supervised Face Frontalization in the Wild. <i>IEEE Transactions on Information Forensics and Security</i> , 2021 , 16, 909-922	8	1
10	Learning Context-Based Nonlocal Entropy Modeling for Image Compression. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	1
9	Guest Editorial Introduction to the Special Issue on Large Scale and Nonlinear Similarity Learning for Intelligent Video Analysis. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2018 , 28, 2441-2448	6.4	1
8	IIT-GAT: Instance-level image transformation via unsupervised generative attention networks with disentangled representations. <i>Knowledge-Based Systems</i> , 2021 , 225, 107122	7.3	1
7	Robust 3D reconstruction from uncalibrated small motion clips. <i>Visual Computer</i> ,1	2.3	0
6	Delayed rectification of discriminative correlation filters for visual tracking. <i>Visual Computer</i> ,1	2.3	0
5	Deep Plug-and-Play Video Super-Resolution. <i>Lecture Notes in Computer Science</i> , 2020 , 114-130	0.9	
4	Palmprint Recognition 2021 , 1-7		
3	A Polyhedral Annexation Algorithm for Aligning Partially Overlapping Point Sets. <i>IEEE Access</i> , 2021 , 9, 166750-166761	3.5	

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| 2 | GCP-SLAM: LSD-SLAM with Learning-Based Confidence Estimation. <i>Lecture Notes in Computer Science</i> , 2018 , 262-275 | 0.9 |
| 1 | Deep Likelihood Network for Image Restoration With Multiple Degradation Levels. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 2669-2681 | 8.7 |